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tentional introductions; *e*, Non-intentional introductions; and *f*, Non-intentional importations. . . . A number of interesting entomological papers have lately been published in the Proceedings of the Iowa Academy of Sciences, by Professors Herbert Osborn and C. P. Gillette. . . . Professor A. J. Cook has published in a recent Bulletin of the Michigan Experiment Station an excellent discussion of insecticides. . . . Professor L. A. Forbes and his assistants have been engaged for some time in a study of the Aquatic life of Illinois; and the first of a series of papers upon the subject has lately been distributed from the Illinois State Laboratory of Natural History. It is a descriptive catalogue of the animals of the Mississippi Bottoms near Quincy, Illinois, by Prof. H. Garman, formerly of the Laboratory force, but now entomologist of the Kentucky Experiment Station.

**Parasitic Castration of *Typlocybæ*.<sup>1</sup>**—M. A. Giard gives an account of his observations on the parasitic castration of *Typlocybe* by the hymenopterous larva *Aphelopus melaleucus*, and the dipterous larva *Ateleneura spuria*. Like their hosts these insects have two generations in a year. The researches of Mr. James Edwards show that what, in a previous note, M. Giard called *T. rosæ* L. should be distinguished into *T. hippocastani* J. Edw. and *T. douglasi* J. Edw. *Aphelopus* usually attacks the former and *Ateleneura* the latter. Parasitism by *Aphelopus* generally causes the ovipositor to be much reduced, and incapable of penetration, but *Ateleneura* seems to have much less influence. The penis, on parasitic castration, undergoes considerable reductions, and the specific character is greatly modified.—*Journal Royal Microscopical Society*.

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## SCIENTIFIC NEWS.

The Hayden gold medal for the advancement of geology, which is the gift of the widow of the late Prof. P. V. Hayden, has just been awarded by a committee of the Academy of Natural Sciences to Jas. Hall of Albany, N. Y. The Hayden medal fund amounts to \$2,500, and from the interest a medal valued at \$130 is to be presented annually to the person who has done the most during the year for the science which was Prof. Hayden's specialty. The award is in the hands of the Academy of Natural Sciences, and the committee consists of Profs. Frazer, Lesley, and Heilprin.

<sup>1</sup> Comptes Rendus, c. IX. (1889), pp. 708--710.

The Tokio Zoological Society has begun the publication of the *Zoological Magazine*, a popular journal in the Japanese language. We understand that it is not the intention to publish in it original contributions to science, but rather popular résumés of scientific work.

The annual report of the Essex Institute at Salem, Mass., makes a good showing. The library has been increased by 11,397 volumes and pamphlets, while the regular income amounts to \$4,288; of which over \$1,000 was expended for printing.

With the October number *The Microscope* has a change of publisher and editor. It is now in the editorial charge of Dr. Alfred C. Stokes, of Trenton, N. J., while "The Microscope Publishing Company," of 145 North Greene Street, Trenton, N. J., has charge of its business affairs.

A party under Professor Angelo Heilprin, recently left for Mexico to explore the volcanic belt stretching across the lowlands from the Gulf to the Pacific Coast. The expedition is sent out under the auspices of the Academy of Natural Sciences, of Philadelphia.

Dr. William Patten has been appointed Professor of Biology in the University of North Dakota, at Grand Forks, North Dakota.

Wassili Uljanin, the well-known embryologist, died at Warsaw, February 5th, in his 49th year.

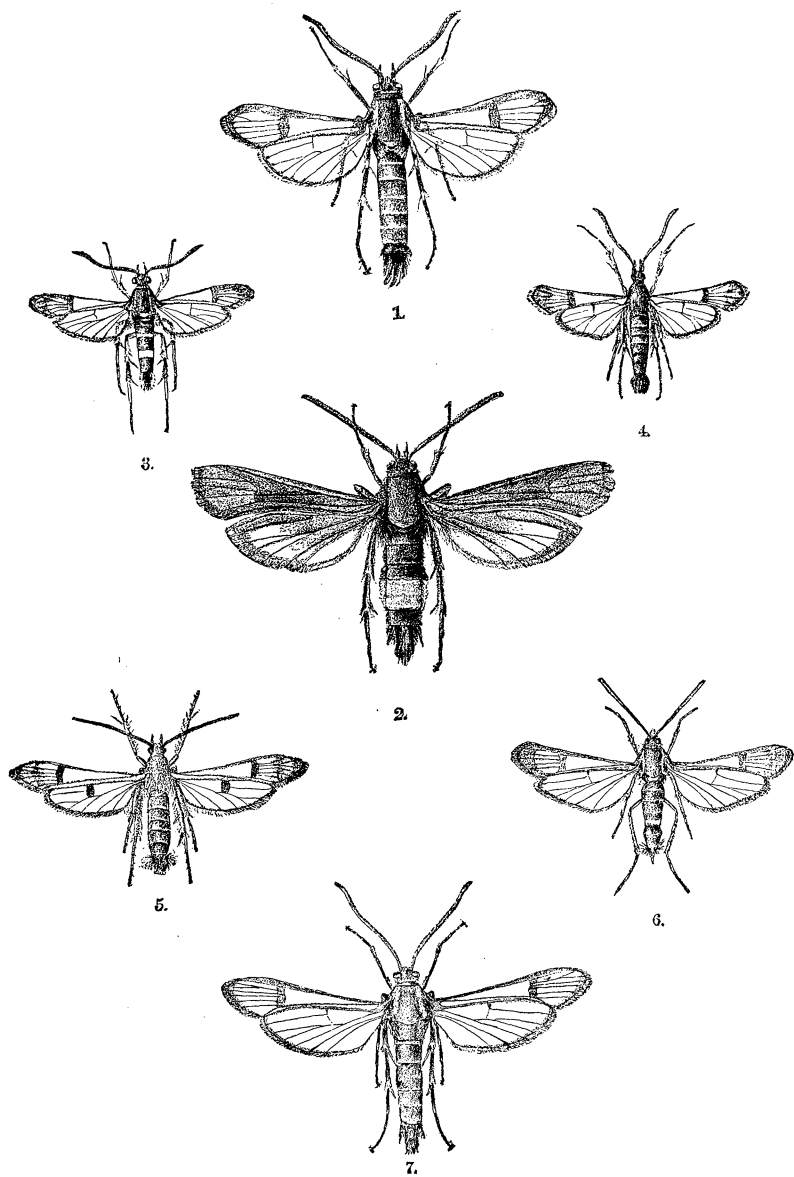
Philip Stöhr, formerly of Würzburg, has been called to the professorship of anatomy at the University of Zurich.

Dr. Drasch, privat-docent in Leipzig, has been called to the University of Graz, as professor extraordinary of histology and embryology.

Dr. J. Worm-Müller, professor of physiology in the University of Christiania, died of pneumonia, January 11th, aged 54.

Dr. F. G. Gade is demonstrator of microscopy in the University of Christiania.

PLATE XLIII.



AEGERIAN MOTHS.